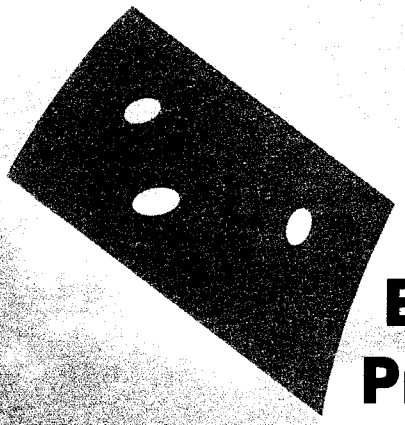
Enroll Now

530K04007



National Partnership for Environmental Priorities

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

What Is the National Partnership for Environmental Priorities?

The National Partnership for Environmental Priorities (NPEP) is a voluntary program that fosters partnerships between EPA/state regulatory agencies and manufacturers, commercial companies, and federal facilities to reduce the use and/or release of 31 priority chemicals (listed on page 2). This partnership is a cornerstone of EPA's Resource Conservation Challenge, which encourages innovative thinking in the conservation of our resources, and better ways to substitute, reduce, reuse, or recycle, in particular.

EPA created the NPEP program to focus efforts on reducing priority chemicals found in our nation's products and wastes. Available scientific data indicate that these chemicals can cause serious harm to humans, wildlife, and ecosystems if released to the environment. The NPEP program works through partnerships to find solutions that eliminate or substantially reduce the use of priority chemicals in production, or on recovering or recycling those chemicals that cannot easily be eliminated or reduced at the source.

EPA's goal is to work with industry and the public to reduce the presence of these priority chemicals by 10 percent by the year 2008, compared to amounts generated in 2001. EPA invites organizations that use hazardous chemicals—particularly any of the 31 priority chemicals listed on page 2—to join NPEP. Make your contribution to the nation's strategic environmental goals.

What Are the Benefits If I Join NPEP?

- You will receive public recognition for achieving voluntary reductions in priority chemicals.
- Your achievements and success stories will be posted on EPA's national program Web site.
- You will be granted use of EPA's NPEP logo to identify your organization as a participant in NPEP.[1]
- You will be able to display your membership plaques and accomplishment awards to customers, suppliers, employees, and stockholders.
- At your request, EPA will notify your local media of your program accomplishments.
- You will have access to Web-based information exchange and technical and environmental training assistance from EPA, state and local government agencies, and non-governmental and university technical assistance programs throughout the country.

How Do I Get Started?

Step 1: Identify one or more chemicals you think are good candidates for source reduction, recycling, or recovery.

Choose one or more of your facility processes that contain one or more priority chemicals. While you may propose processes that do not contain priority chemicals but that will, nevertheless, result in a significant environmental improvement, the purpose of the NPEP program is to reduce the use of priority chemicals in products whenever possible. These chemicals are harmful and can cause the most serious damage if released into the environment.

Step 2: Develop a source reduction and/or recycling or recovery goal and project timeline for each of the chemicals you are targeting.

For each chemical you identify, establish a source reduction and/or recycling or recovery goal and a timeline for achieving that goal. You may identify as many goals as you choose. For example, you might choose to explore less toxic substitutes for lead in your production process to reduce the amount of lead used from a 2002 baseline of 500 pounds per year to a 2004 goal of 50 pounds per year. The total reduction might be expressed as a percent reduction per year, pounds of lead reduced during the project period, and/or a reduction in pounds of lead generated per unit of product produced. In addition to, or instead of, stating a source reduction goal, your goal might be to increase recycling or recovery of lead waste by 25 percent over the same time period.

Some projects may take several years to complete, so you may wish to consider setting one or more measurable interim goals to achieving a longer term goal. For example, if a proposed project will take three years to fully implement, you might consider setting annual goals that provide measurable results along the way. For a project of this type, each annual goal would be identified by a different number; the first annual goal would be Goal #1, the second would be Goal #2, and so on.

United States Environmental Protection Agency
Office of Solid Waste
(5302W)
Washington, DC 20460

EPA530-K-04-007
August 2004
www.epa.gov/wastemin

[1] *Please note that EPA cannot endorse the purchase of a any company's products, and use of the logo does not represent such an endorsement.*

Step 3: Sign up.

Enroll online at <www.epa.gov/wastemin> or complete and submit the enclosed enrollment form. You can also download the enrollment form from the Web site above. If you need to adjust your goals during the project, just let us know. If you wish to set goals for more than one priority chemical, complete goal information for your first chemical, then complete additional goals sections for additional chemicals using the same procedure. See the sample completed enrollment form in this brochure and examples of NPEP partner enrollment forms, also found on our Web site.

What Happens After I Submit My Enrollment Form?

EPA reviews applicants' voluntary goals to ensure that they result in a meaningful improvement in environmental performance and that they are described in clear and positive ways. Once EPA accepts your enrollment application, we will provide you with a membership plaque, post your organization's name and voluntary goals on the Web site, and, upon request, alert your local media of your enrollment and voluntary goals.

How Can I Receive EPA Recognition for My Accomplishments?

If you have achieved one of the goals identified in your enrollment agreement, you are eligible for an Achievement Award. To receive this award, describe your achievement using the Success Story outline provided in this packet. Your completed Success Story serves as your application for an Achievement Award. If you are not ready to apply for an Achievement Award at this time, but have made important progress toward your goal(s), you may wish to share information about your progress. You may submit a Success Story outlining this progress to be posted on the Web site. You may submit either type of Success Story at <www.epa.gov/wastemin>, or

via mail:
Partnership Coordinator
U.S. Environmental Protection Agency (5302W)
Washington, DC 20460

via delivery service:
Partnership Coordinator
U.S. Environmental Protection Agency
Waste Minimization Branch, 6th Floor
2800 Crystal Drive
Arlington, VA 22202
(703) 308-8757

Priority Chemicals

Organic Chemicals and Chemical Compounds

CASRN	Name
120-82-1	1,2,4-Trichlorobenzene
95-94-3	1,2,4,5-Tetrachlorobenzene
95-95-4	2,4,5-Trichlorophenol
101-55-3	4-Bromophenyl phenyl ether
83-32-9	Acenaphthene
208-96-8	Acenaphthylene
120-12-7	Anthracene
191-24-2	Benzo(g,h,i)perylene
132-64-9	Dibenzofuran
	Dioxins/Furans
33213-65-9	Endosulfan, beta
959-98-8	Endosulfan, alpha
86-73-7	Fluorene
76-44-8	Heptachlor
1024-57-3	Heptachlor epoxide
118-74-1	Hexachlorobenzene
87-68-3	Hexachlorobutadiene
58-89-9	Lindane (Hexachlorocyclohexane, gamma-)
67-72-1	Hexachloroethane
72-43-5	Methoxychlor
91-20-3	Naphthalene
	PAH Group (as defined in TRI)
40487-42-1	Pendimethalin
608-93-5	Pentachlorobenzene
82-68-8	Quintozene (Pentachloronitrobenzene)
87-86-5	Pentachlorophenol
85-01-8	Phenanthrene
1336-36-3	Polychlorinated Biphenyls (PCBs)
129-00-0	Pyrene
1582-09-8	Trifluralin

Metal and Metal Compounds

7440-43-9	Cadmium
7439-92-1	Lead
7439-97-6	Mercury

Questions?

Call one of EPA's voluntary partnership program contacts to discuss your ideas, ask questions about getting started, and for locating technical assistance resources.

EPA Region 1: CT, MA, ME, NH, RI, VT
Linda Darveau: (617) 918-1718
darveau.linda@epa.gov

EPA Region 2: NJ, NY, PR, VI
Joseph Malki: (212) 637-4101
malki.joseph@epa.gov

EPA Region 3: DE, DC, MD, PA, VA, WV
Tad Radzinski: (215) 814-2394
radzinski.tad@epa.gov

EPA Region 4: AL, FL, GA, KY, MS, NC, SC, TN
Dave Langston: (404) 562-8478
langston.david@epamail.epa.gov

EPA Region 5: IL, IN, MI, MN, OH, WI
Janet Haff: (312) 353-7923
haff.janet@epa.gov

EPA Region 6: AR, LA, NM, OK, TX
Melissa Galyon: (214) 665-8423
galyon.melissa@epa.gov

EPA Region 7: IA, KS, MO, NE
Gary Bertram: (913) 551-7533
bertram.gary@epa.gov

EPA Region 8: CO, MT, ND, SD, UT, WY
Benjamin Bents: (303) 312-6435
bents.benjamin@epa.gov

EPA Region 9: AZ, CA, HI, NV
Heidi Hall: (415) 972-3386
hall.heidi@epa.gov

EPA Region 10: AK, ID, OR, WA
Domenic Calabro: (206) 553-6640
calabro.domenic@epa.gov

EPA Headquarters
Newman Smith: (703) 308-8757
smith.newman@epa.gov

ENROLLMENT FORM INSTRUCTIONS

Ready to enroll? Options for enrolling.

- Fill out an online enrollment form at <www.epa.gov/wastemin> Click on "Partnerships" to link to the form.
- Download an enrollment form from the Web site and submit to us via mail or delivery service.
- Fill out the enrollment form enclosed in this package and submit to us via mail or delivery service.

General Information

This section of the enrollment form asks for basic information about the enrolling organization. We ask for the name of the organization joining, as well as the name of the individual facility or facilities joining. Identify a principal contact and the person authorizing participation in the program. Be sure to include your facility's RCRA ID number to help us identify you.

Goals Development

Identify the chemical(s) you have selected for reduction by name and by CASR number and describe how you plan to reduce, recycle, or recover this chemical.* If conducting source reduction activities, complete the first two questions by estimating how much of each chemical you are currently using and how much you may achieve through source reduction. Next, identify the type of source reduction activity you plan to implement.

If you are conducting recycling or recovery activities, complete the next two questions by first estimating the baseline amount of each chemical that is currently used, and then estimate the anticipated reductions you may achieve through recycling or recovery.

* If conducting recycling activities only, skip to question 3 on the enrollment form.

Submission

Please submit your form electronically at or mail completed forms to EPA:

via mail:
Partnership Coordinator
U.S. Environmental Protection Agency (5302W)
Washington, DC 20460

via delivery service:
Partnership Coordinator
U.S. Environmental Protection Agency
Waste Minimization Branch, 6th Floor
2800 Crystal Drive
Arlington, VA 22202
(703) 308-8757

Step 3: Sign up.

Enroll online at <www.epa.gov/wastemin> or complete and submit the enclosed enrollment form. You can also download the enrollment form from the Web site above. If you need to adjust your goals during the project, just let us know. If you wish to set goals for more than one priority chemical, complete goal information for your first chemical, then complete additional goals sections for additional chemicals using the same procedure. See the sample completed enrollment form in this brochure and examples of NPEP partner enrollment forms, also found on our Web site.

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via mail:
Partnership Coordinator
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95-95-4	2,4,5-Trichlorophenol
101-55-3	4-Bromophenyl phenyl ether
83-32-9	Acenaphthene
208-96-8	Acenaphthylene
120-12-7	Anthracene
191-24-2	Benzo(g,h,i)perylene
132-64-9	Dibenzofuran
	Dioxins/Furans
33213-65-9	Endosulfan, beta
959-98-8	Endosulfan, alpha
86-73-7	Fluorene
76-44-8	Heptachlor
1024-57-3	Heptachlor epoxide
118-74-1	Hexachlorobenzene
87-68-3	Hexachlorobutadiene
58-89-9	Lindane (Hexachlorocyclohexane, gamma-)
67-72-1	Hexachloroethane
72-43-5	Methoxychlor
91-20-3	Naphthalene
	PAH Group (as defined in TRI)
40487-42-1	Pendimethalin
608-93-5	Pentachlorobenzene
82-68-8	Quintozene (Pentachloronitrobenzene)
87-86-5	Pentachlorophenol
85-01-8	Phenanthrene
1336-36-3	Polychlorinated Biphenyls (PCBs)
129-00-0	Pyrene
1582-09-8	Trifluralin

Metal and Metal Compounds

7440-43-9	Cadmium
7439-92-1	Lead
7439-97-6	Mercury

Enroll Us!

OMB Control Number: 2050-0190
Expiration Date: 4/30/2006

We Want to Be a Partner in EPA's National Partnership for Environmental Priorities

National Partnership for Environmental Priorities

GENERAL INFORMATION

Name of Organization: _____ Facility Name: _____
Principal Contact: _____ Title: _____
Facility Location: _____ City/State/Zip: _____
Mailing Address: _____ City/State/Zip: _____
Phone: _____ Fax: _____
Email: _____ EPA RCRA ID Number: _____

PARTNER AGREEMENT

Our organization is choosing to become a partner in EPA's National Partnership for Environmental Priorities. Our goal is to reduce the quantity of one or more priority chemicals currently found in our products, processes, or releases using techniques such as source reduction, recycling, or other materials management practices. In this enrollment application, we identify one or more voluntary goals that we believe we can achieve as partners in this program. The voluntary goal(s) provided below is an initial estimate and may change over time. We may revise our goal(s) or withdraw from the program at any time. If/when we choose to revise our goals or withdraw from the program, we will notify EPA.

*If conducting recycling activities only, skip to question 3.

GOAL #1. Chemical Name: _____ **CASRN:** _____
Narrative description of proposed project and the method we will use to measure success: _____

1. Our voluntary source reduction goal for Chemical #1 is to reduce the amount of this chemical generated from a baseline amount of _____ pounds generated in _____ (month/year) to a reduced amount of _____ pounds generated by _____ (month/year).

2. To accomplish this goal, we will explore the following source reduction options (check all that apply):
   - _____ Equipment or technology modifications.
   - _____ Process or procedure modifications.
   - _____ Reformulation or redesign of products.
   - _____ Substitution of less toxic raw materials.
   - _____ Improvements in inventory control.
   - _____ Improvements in maintenance/housekeeping practices.
   - _____ Other (explain): _____

3. Our (optional) voluntary recycling or recovery goal for Chemical #1 is to increase the amount of this chemical recycled or recovered from a baseline amount of _____ pounds in _____ (month/year) to an increased quantity of _____ pounds by _____ (month/year).

4. To accomplish this recycling or recovery goal, we will explore the following options (check all that apply).
   - _____ Direct use/reuse in a process to make a product.
   - _____ Processing the waste to recover or regenerate a usable product.
   - _____ Using/reusing waste as a substitute for a commercial product.
   - _____ Other (explain): _____

Authorizing Official/Title: _____ **Date:** _____
Project Contact (if different from Authorizing Official): _____ **Phone:** _____
NOTE: use supplemental sheets for additional goals.
Page ____ of ____.

OMB Control Number: 2050-0190
Expiration Date: 4/30/2006

SUPPLEMENTAL GOAL SHEET: NATIONAL PARTNERSHIP FOR ENVIRONMENTAL PRIORITIES

GOAL # __. Chemical Name: _____ **CASRN:** _____
Narrative description of proposed project and the method we will use to measure success: _____
_____
_____
_____

1. Our voluntary source reduction goal for Chemical # ____ is to reduce the amount of this chemical generated from a baseline amount of _____ pounds generated in _____ (month/year) to a reduced amount of _____ pounds generated by _____ (month/year).

2. To accomplish this goal, we will explore the following source reduction options (check all that apply):
   - _____ Equipment or technology modifications.
   - _____ Reformulation or redesign of products.
   - _____ Improvements in inventory control.
   - _____ Process or procedure modifications.
   - _____ Substitution of less toxic raw materials.
   - _____ Improvements in maintenance/housekeeping practices.
   - _____ Other (explain): _____

3. Our (optional) voluntary recycling or recovery goal for Chemical # ___ is to increase the amount of this chemical recycled or recovered from a baseline amount of _____ pounds in _____ (month/year) to an increased quantity of _____ pounds by _____ (month/year).

4. To accomplish this recycling or recovery goal, we will explore the following options (check all that apply).
   - _____ Direct use/reuse in a process to make a product.
   - _____ Processing the waste to recover or regenerate a usable product.
   - _____ Using/reusing waste as a substitute for a commercial product.
   - _____ Other (explain): _____

****

GOAL # __. Chemical Name: _____ **CASRN:** _____
Narrative description of proposed project and the method we will use to measure success: _____
_____
_____
_____

1. Our voluntary source reduction goal for Chemical # ___ is to reduce the amount of this chemical generated from a baseline amount of _____ pounds generated in _____ (month/year) to a reduced amount of _____ pounds generated by _____ (month/year).

2. To accomplish this goal, we will explore the following source reduction options (check all that apply):
   - _____ Equipment or technology modifications.
   - _____ Reformulation or redesign of products.
   - _____ Improvements in inventory control.
   - _____ Process or procedure modifications.
   - _____ Substitution of less toxic raw materials.
   - _____ Improvements in maintenance/housekeeping practices.
   - _____ Other (explain): _____

3. Our (optional) voluntary recycling or recovery goal for Chemical # ___ is to increase the amount of this chemical recycled or recovered from a baseline amount of _____ pounds in _____ (month/year) to an increased quantity of _____ pounds by _____ (month/year).

4. To accomplish this recycling or recovery goal, we will explore the following options (check all that apply).
   - _____ Direct use/reuse in a process to make a product.
   - _____ Processing the waste to recover or regenerate a usable product.
   - _____ Using/reusing waste as a substitute for a commercial product.
   - _____ Other (explain): _____

Name of Organization: _____
Project Contact: _____ **Phone:** _____

ENROLL US!

OMB Control Number: 2050-0190
Expiration Date: 4/30/2006

We Want to Be a Partner in EPA's National Partnership for Environmental Priorities

GENERAL INFORMATION

Name of Organization: ABC Manufacturing
Principal Contact: Bob Schroeder
Facility Location: 2525 Hollywood Lane
Mailing Address: same
Phone: 555-333-6644
Email: bschroeder@abcmanufacturing.com

Facility Name: Detroit, MI
Title: Environmental Specialist
City/State/Zip: Detroit, MI
City/State/Zip:
Fax: (555)333-6655
EPA RCRA ID Number: XYD 910 848 737

PARTNER AGREEMENT

Our organization is choosing to become a partner in EPA's National Partnership for Environmental Priorities. Our goal is to reduce the quantity of one or more Priority Chemicals currently found in our products, processes, or releases using techniques such as source reduction, recycling, or other materials management practices. In this enrollment application, we identify one or more voluntary goals that we believe we can achieve as partners in this program. The voluntary goal(s) provided below is an initial estimate and may change over time. We may revise our goal(s) or withdraw from the program at any time. If/when we choose to revise our goals or withdraw from the program, we will notify EPA.

*If conducting recycling activities only, skip to question3.

GOAL #1. Chemical Name: Lead **CASRN:** 7439-92-1

Narrative description of proposed project and the method we will use to measure success:

Investigate opportunities to eliminate lead from our solder process. Previously, we replaced 50 percent with a low-lead solder which contained less than 1 percent lead.

1. Our voluntary source reduction goal for Chemical #1 is to reduce the amount of this chemical generated from a baseline amount of 2,000 pounds generated in May 2004 (month/year) to a reduced amount of 0 pounds generated by December 2004 (month/year).

2. To accomplish this goal, we will explore the following source reduction options (check all that apply):
   - [X] Equipment or technology modifications.
   - [ ] Reformulation or redesign of products.
   - [ ] Improvements in inventory control.
   - [X] Process or procedure modifications.
   - [ ] Substitution of less toxic raw materials.
   - [ ] Improvements in maintenance/housekeeping practices.
   - [ ] Other (explain):

3. Our (optional) voluntary recycling or recovery goal for Chemical #1 is to increase the amount of this chemical recycled or recovered from a baseline amount of _____ pounds in _____ (month/year) to an increased quantity of _____ pounds by _____ (month/year).

4. To accomplish this recycling or recovery goal, we will explore the following options (check all that apply).
   - [ ] Direct use/reuse in a process to make a product.
   - [ ] Processing the waste to recover or regenerate a usable product.
   - [ ] Using/reusing waste as a substitute for a commercial product.
   - [ ] Other (explain):

Authorizing Official/Title: Jim Buck/Vice President **Date:** 4/8/04
Project Contact (if different from Authorizing Official): _____ **Phone:** _____
NOTE: use supplemental sheets for additional goals.
Page 1 of 2.

OMB Control Number: 2050-0190
Expiration Date: 4/30/2006

SUPPLEMENTAL GOAL SHEET: NATIONAL PARTNERSHIP FOR ENVIRONMENTAL PRIORITIES

GOAL # 2. Chemical Name: Nickel-cadmium compounds **CASRN:** N/A
Narrative description of proposed project and the method we will use to measure success:

Send used nickel-cadmium batteries from cordless power tools to recycling facilities rather than dispose of them as hazardous waste. Find a vendor to recycle these batteries.

1. Our voluntary source reduction goal for Chemical # ____ is to reduce the amount of this chemical generated from a baseline amount of _____ pounds generated in _____ (month/year) to a reduced amount of _____ pounds generated by _____ (month/year).

2. To accomplish this goal, we will explore the following source reduction options (check all that apply):
   - _____ Equipment or technology modifications.
   - _____ Reformulation or redesign of products.
   - _____ Improvements in inventory control.
   - _____ Process or procedure modifications.
   - _____ Substitution of less toxic raw materials.
   - _____ Improvements in maintenance/housekeeping practices.
   - X Other (explain): Send used nickel-cadmium batteries from cordless power tools to recycling facilities

3. Our (optional) voluntary recycling or recovery goal for Chemical # 2 is to increase the amount of this chemical recycled or recovered from a baseline amount of 0 pounds in May 2004 (month/year) to an increased quantity of _____ pounds by December 2004 (month/year).

4. To accomplish this recycling or recovery goal, we will explore the following options (check all that apply).
   - _____ Direct use/reuse in a process to make a product.
   - _____ Processing the waste to recover or regenerate a usable product.
   - _____ Using/reusing waste as a substitute for a commercial product.
   - _____ Other (explain): _____

****

GOAL # __. Chemical Name: _____ **CASRN:** _____
Narrative description of proposed project and the method we will use to measure success: _____

1. Our voluntary source reduction goal for Chemical # ___ is to reduce the amount of this chemical generated from a baseline amount of _____ pounds generated in _____ (month/year) to a reduced amount of _____ pounds generated by _____ (month/year).

2. To accomplish this goal, we will explore the following source reduction options (check all that apply):
   - _____ Equipment or technology modifications.
   - _____ Reformulation or redesign of products.
   - _____ Improvements in inventory control.
   - _____ Process or procedure modifications.
   - _____ Substitution of less toxic raw materials.
   - _____ Improvements in maintenance/housekeeping practices.
   - _____ Other (explain): _____

3. Our (optional) voluntary recycling or recovery goal for Chemical # ___ is to increase the amount of this chemical recycled or recovered from a baseline amount of _____ pounds in _____ (month/year) to an increased quantity of _____ pounds by _____ (month/year).

4. To accomplish this recycling or recovery goal, we will explore the following options (check all that apply).
   - _____ Direct use/reuse in a process to make a product.
   - X Processing the waste to recover or regenerate a usable product.
   - _____ Using/reusing waste as a substitute for a commercial product.
   - X Other (explain): _____

Name of Organization: _____
Project Contact: _____ **Phone:** _____

OMB Control Number: 2050-0190
Expiration Date: 4/30/2006

National Partnership for Environmental Priorities

ACHIEVEMENT AWARD APPLICATION

Ready to apply for an Achievement Award or share a Success Story? If you have achieved one of the goals identified in your enrollment agreement, you are eligible for an Achievement Award. To receive this award, describe your achievement using the Success Story outline provided in this packet or at our Web site at <www.epa.gov/wastemin>. Your completed Success Story serves as your application for an Achievement Award.

If you are not ready to apply for an Achievement Award at this time, but you have made important progress toward your goal(s) and you would like to share information about your progress, you may submit a Success Story to post on our Web site. You can select this option in the first section of the Success Story outline.

EPA will review your Success Story for completeness, send you an Achievement Award, and post your achievement on EPA's NPEP Web site in our Success Story Showcase. At your request, we will also notify your local media of your Achievement Award.

Submission Instructions

Please mail completed Success Story to us at:

Partnership Coordinator
U.S. Environmental Protection Agency
(5302W)
Washington, DC 20460

For Delivery Service:

Partnership Coordinator
U.S. Environmental Protection Agency
Waste Minimization Branch, 6th Floor
2800 Crystal Drive
Arlington, VA 22202
(703) 308-8757

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WHAT CAN YOU SAVE TODAY? RESOURCE CONSERVATION CHALLENGE

SUCCESS STORY OUTLINE

National Partnership for Environmental Priorities

The outline provided below offers a framework for making your Success Story clear and understandable to the many readers that visit the NPEP Web site. The outline makes recommendations for approximate length, but you can make your Success Story as detailed as you wish. If you have any questions, return to <www.epa.gov/wastemin> for links to more information.

1. Identifying Information (As entered on your enrollment form.)

Organization Name: _____
Principal Contact/Title: _____
Address: _____
City/State/ZIP: _____
Phone: _____ Fax: _____
E-mail: _____ EPA RCRA ID Number: _____
Enrollment date: _____ Today's Date: _____

Check one of the following options:

____ We have achieved one of the goals identified in our enrollment form and would like to apply for an Achievement Award.
____ We are not applying for an Achievement Award at this time. However, we have made important progress and would like to submit a Success Story to post on your Web site

2. Background (about 100 words)

- How large is your organization?
- How long has your organization been in operation?
- What do you produce, and what is the product used for?
- Who are your major customers?
- How do you produce this product?
- How much do you produce in a year?

Section 3: What Partnership Program Goal Did You Set and How Did You Achieve It? (about 250 words)

- What chemical(s) did you choose to work on?
- What source reduction, recycling, materials recovery and/or energy recovery goal(s) did you set?
- Why did you pick this waste(s) to work on?

Section 4: What Source Reduction and/or Recycling Alternatives Did You Explore? (about 250 words)

Source Reduction:

- Equipment or technology modifications
- Reformulation or redesign of products
- Improvements in inventory control
- Process or procedure modifications

- Substitution of less toxic raw materials
- Improvements in maintenance/housekeeping practices
- Other (please explain below)

Recycling:

- Direct use/reuse in a process to make a product
- Processing the waste to recover or regenerate a usable product
- Using/reusing waste as a substitute for a commercial product
- Other (please explain)

What method did you finally use to achieve your goal?

What prior successes, if any, helped you achieve this goal?

Section 5: What Hurdles Did You Face? (about 150 words)

- Material substitution issues
- Product quality issues
- Process change issues
- Equipment issues
- Financial issues
- Customer issues
- Senior management commitment and support issues
- Training and/or departmental coordination issues

Section 6: Waste Minimization Results (about 250 words)

- Describe and quantify any changes in product content, energy use, and/or environmental releases that resulted from accomplishing your goal.
- Describe cost savings and/or increases, including changes in capital, production, operations and maintenance, raw material purchases, waste management, and worker health and safety costs.
- What was the payback period for this project?
- Describe any changes in company policy, management and/or worker involvement, and/or customer satisfaction that resulted directly or indirectly from this achievement.

Section 7: Lessons Learned: (about 100 words)

- What lessons learned from this project would you like to share with others?

Delivery Information

Please mail completed Success Story to us at:

Partnership Coordinator
U.S. Environmental Protection Agency
(5302W)
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EXAMPLE SUCCESS STORY: ACME MICROGLASS COMPANY

Acme MicroGlass Company. The Acme MicroGlass Company (AMG) was founded in 1991 in Wayright, Pennsylvania. AMG grew from 20 employees in 1991 to 500 employees in 2003. AMG manufactures specialized production monitoring equipment that can be used in a variety of commercial and manufacturing processes to evaluate efficiency and error rates. MicroGlass units are manufactured using a proprietary process that incorporates electronic computer chip production technologies with state-of-the-art cathode ray tube and software management technologies. AMG's major customers include medical equipment manufacturers, aeronautics engineering companies and computer manufacturers. AMG reported revenues of more than $440 million in 2002.

AMG's Partnership Program Goal. In order to maintain market share in a highly competitive electronics industry, AMG management directed its engineering and production departments to explore cost reduction options. One of the cost areas explored was waste management. In 2001, AMG generated 200 tons of spent solvent and metal-bearing hazardous wastes that cost $800,000 to manage and dispose of properly. One of the metals in the waste was lead, which is widely known to be a public health concern because of its toxicity to humans if ingested or inhaled. Prior to enrolling in EPA's National Partnership for Environmental Priorities (NPEP), AMG identified a goal of reducing lead in production by 50 percent as a means of cutting production costs and began working on technical alternatives in 2001. AMG enrolled in NPEP in June 2002.

Alternatives Considered. AMG used a lean manufacturing approach, Kaizen, to structure a plan for improving production efficiency and environmental performance. AMG considered a variety of raw material substitutes that would either reduce or eliminate lead in its production processes. AMG had to ensure that product performance remained extremely high considering the specialized applications its customers depend on. After exploring many alternatives, AMG finally adopted ceramic and beryllium-based substitutes for two of its three lead uses in production. AMG also installed dual electrostatic precipitators on its remaining process that used lead in the application and increased recovery of lead by 75 percent. AMG installed several O&M improvements, including recovery sumps in floor drains and improved efficiency product rinsing techniques that reduced the generation of non-lead wastes. AMG had used a similar team approach to reduce error rates in 1995 and to reduce production down time in 1999.

Hurdles Faced. Coordinating efforts between departments was difficult at first because some managers were wary of potential risks of changing product quality—one of the main concerns of the company. Others were concerned about making production changes that would create downtime and interfere with production quotas and delivery dates. As the alternatives were developed and tested, managers' and workers' concerns were addressed. Downtime was minimized and product quality was demonstrated to be equal to or better than existing quality.

Results. AMG reduced its lead usage by about 1,800 pounds per year. Waste generation decreased by 50 percent in the first year. The research and capital costs to make this change totaled over $1.5 million over a year and a half. In addition, purchasing specialized raw materials increased raw material purchase costs by 8 percent. At the same time, waste management costs, worker health and safety training costs, and O&M costs decreased by $250,000 in the first year. Net savings in the first year of operation was $200,000, yielding a payback period of 7.5 years. While the payback period is less than optimal, AMG management considers this investment a worthwhile one because it provides AMG a technological advantage that the company can build on; the process identified other production opportunities that could yield additional savings; and AMG's membership in EPA's NPEP provides advantageous public recognition with its customers.

Lessons Learned. Developing a coordinated plan that has top management support is crucial to achieving a desired outcome. Talking to line workers as well as managers provides important information about how to make transitions smoother.